

Abstract Submitted
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Neutrinos from All the Stars in the Universe ZIPING YE, Shanghai Jiao Tong Univ — All the stars in the observable Universe emit neutrinos, which create a diffuse stellar neutrino background (DStellarNB). Observing the DStellarNB will enable us to measure the density of stars in the observable Universe and the star formation history, which is not viable through observing diffuse stellar photon background (DStellarPB) because photons are blocked by interstellar matter but neutrinos are not. This talk presents a calculation of the flux of DStellarNB, and discuss the possibility of its detection.

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